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A. J. Carter looks at the upgrade kit for all those rubbery old Spectrums.



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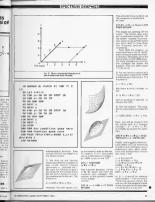
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Building An Adventure Brain 3: The final stages by Brian J. Robb.





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Chart Topper

breaking strategy game. - ZX81 and spectrum conversion tips are included



Conversion Hints

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SPECTRUM PROGRAM



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SPECTRUM PROGRAM

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2187 DATA 205,205,255,205,240,22 4,192,120 2118 DATA 120,192,224,246,255,23 5,225,235 2111 DATA 1,2,7,31,225,225,225,2

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SPECTRUM PROGR

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2536 INFUT 'Press any key to contions 'I LINE us

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LG | PRINT 'ARRA APRICA'S EE

E20 REFERENCES

250F PRINT '' The first player is decided atransom by the comp uter. "You have caps A to F." The computer has caps O to L."

The computer has raps 0 to L.*
2540 PAINT ** When you are [75]
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t and declarathe result. You can a slop play at any time By Lypi ng "end". "Bow Heur "Press to to repeat, o r may ether key to play the game "I LIME etc IF COST 18-00-3241 perty! DEPO GO TO 2440

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Budget Software A look at some cut price software for the Spectrum



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How to speed up list-sorting by John Kinory

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SPECTRUM PROGRAMM

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First steps in Machine Code

Part 5, ROM Routines

BO LET CAR

135 PRINT :

An introduction to Z80 Machine Code by David Nowotnik

Fig.1. Listing of the Shift/Hotate Deconstration grow TO BEH 280 SHIFT/ROTATE DEMONSTRATION

IS REM D. NOMOTHIK, IX COMPUTIAN 20 REM JUNE 1985

45 LET ASIAINTRRA/RET

DO LET ARISINGSLAT SS LET RE(A) ="GRL" 60 LET A\$17) #*580*

70 LET AT(9) ="800"

75 LET BEAT DENOMBTRATION OF BHIST/SOTATES

100 CLS 105 PRINT AT 2,1184 110 PRINT AT 6,21 TELECTI-

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*108311 125 PRINT . 2: "108121 S. "IAFESI 4. "10#141

D. "108(D) "IBE(A) *108(7) 140 PRINT - 9 "(DECT)

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175 LET CO- INCEYS

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AT 15,16;DHS (DDE Y8+128)
44U5 DDBUB P
44U5 DBUB P
44U5 PRINT AT 9,19;Y8(1); AT 15,16;Y8(1)
44U5 LET Y8*Y8(2 TO)*Y8(1)

4500 PRINT AT 15,161 CHR# (E+156) 4500 GORDE P 4510 PRINT AT 15,36; "1 AT 7,191 CHR# (E+156) 4516 GORDE P 4516 FRINT AT 7,6; "1 AT 15,161 CHR# (CDGE Y#13)+1280

4510 PRINT AT 9,191" "1 AT 9,2410-68 (CODE YE (D)

*128) *15 GOGUE P *15 GOGUE P *120 FOR 1=7 TO 1 STEP -1 *22 FRINT AT 9,13+11" "+YE(I) *25 FOR J=1 TO 10 *25 FOR J=1 TO 10

10 NEXT I 15 BOSUB P 10 RETURN

450 FEILEN 450 FEINT AT 9,241" ": AT 9,12; DHR# (Y#(B)+1281; 470 FEILE (COBE Y#(B)+128) 470 GOSUB F

FIG PRINT AT 9,12176(B);AT 15,1617 FIG LET Y6=Y6(B)+Y6(TG 2) FIGURE OF THE PRINT O

050 PRINT AT 15,16[CHR# (E+156) 055 00500 P 050 PRINT AT 15,16[" '1 AT 9,12; CHR# (E+156)

000 PHINT AT 15,16;" '; AT 9,12; CHR# (E+156) 005 005.0 P 870 PHINT AT 9,24;" '; AT 15,16;CHR# (E00E Y#(0)+

97% BOELD P 670 PRINT AT 9,121CHR# (E+201) AT 15,1617#(E)

1790 RETURN 8000 PRINT AT 9.61" "1 AT 15.161CHR# (CODE Y#+129)

MES PRINT AT 9,231 CHA# 150 MES PRINT AT 9,231 CHA# 150

MESO ROPUS P 4,231 0"1 AT 15,16144(1)

HAS SETURN SEC PRINT AT V,241° "; AT 15,16; CHR\$ (CODE V\$(8)+129)

985 COLUMN AT 9,6; CHR. \$ 156 985 COLUMN AT 9,6; CHR. \$ 156 985 COLUMN AT 9,6; "1AT 9,12; CHR \$ 156

000 FRINT AT 9,12; 0 1AT 15,16; V#(8)
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MESS PRINT AT 9,241° "; AT 15,16;6-R# (CODE V#(8)*128)
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055 PRINT AT 9,12; Y8(1); AT 15,16; Y8(9) 825 LET Y8Y8(1) + Y8(TD 7) 860 SETUSH More Registers ...

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6470 LET 25-72-105

6460 PRIME AT 9,10; "¡AT 9,12;29:5 TO)
6450 DRAW AT 9,10; "¡AT 9,12;29:5 TO)
6450 PRIME AT 15,23;CB;AT 9,16;T2
6450 LET Re-yes(5 TO)
6460 LET Ye-yes(7 TO)
6460 LET Ye-yes(7 TO)
6460 LET Ye-yes(7 TO 4)-23: TO 4)

4472 B09UB P 1475 PRINT AT 0,124261AT 15,124YE

8510 FRINT AT 15,161" "1AT 15,23178 ASSO PRINT AT 9,1445#

sean DRINT OF 9,144" "IAT 15-16:88

MESO PRINT AT 7,121" "124: TO 4)

8565 LET YE-YE' TO 43+TE

MEET PRINT AT 9,12:20;AT 18,12:YE 1560 RETURN

DOOR FOR INS TO 1 STEP -1 Non LET X+X+(CDDE Z#(1)-28) * (2**(0-1)) 7020 MERY 1

NAME AND THE TO I STEP -1 NAT LET X=X+(CODE Y#(I)-28)+(2+*(0-1))

fig.2. Dichange program lines for the Spectrum version

NOT THE REF HOME SEC PRINT AT 9,121 INC 71 PAPER OLYS (1) SEE PRINT AT 9,121" "JAT 7,61 IN. 71 PAPER ULYSIS SECU PRINT AT 9,61" "IAT 9,19; IMK 71 PAPER 0,78 (\$); EGG PRINT AT 15,16; INC 71 PAPER OLD

WEST PRINT AT 15,161" "JAT 9,19; INK 7; PAPER USE SEE PRINT AT 9.61" "SAT SE, 161 DAY 71 PAPER OFYELD MESO PRINT AT 10,161 VECTO 187 V. 17; INC 71 PAPER DIE 856) LET VS-YS 12 TO 2+ STRE F. 800 PRINT AT 7.19; INC 7: PATER OLVE(8)

860 PRINT AT 7,191" "1AT 7,241 INC 71 PAPER 017#(8) \$530 FOR Jul TO 40 STREET AT 9.241" "EAT 9.121 INR 74 POPER OLYS (8) 1 MI 15, Leg Ya (8)

USU PRINT AT 15,16; INP 7; PAFER USE THE PRINT AT 15,161" "IAT V,121 IN 71 PAPER ULE 400 PRINT AT 9,241" ":AT 15,16; IN. 7; PAPER 01Y8 (8) AND PRINT AT 9,12;E;AT 15,16;YE(8)

OR LET VESCHER PAYER TO 71 MED FRINT AT 9.01" "(AT 15,16) INV 71 PAPER 0(V#41)

X PROCRAMMING

4015 PRINT AT 9,23% INK 7% PAPER 01*0*
4025 PRINT AT 9,23;" "; AT 9,19; INC 7; PAPER 0; "O"
4850 FRINT AT 9,241" "IAT 15,16; INP 7; PAPER 0; Y#18)
4040 PRINT AT 9,61 INK 7; FAPER 0;"0"
4970 PRINT AT 9,61" "IRT 9,121 IN: 71 PAPER 0:"0"
4590 PRINT AT 9,12; INK 7; PAPER 0; YM(1)
4907 PRINT AT 9,6; INC. 7; PAPER 0,98(1)
6330 LET R#=Z#(TO 4)
6335 LET 59=29 (5 TO)
6360 LET TSWYRCS TO 1
6400 PRINT AT 15,16; INK 7; PAPER 0; T#
6410 FRINT AT 15,161" "IAT 15,23; INF 7; FAFER ULT
6420 FRINT AT 9,12; INC 7; PAPER 0,88
6430 PRINT AT 9,12; "IAT 15,16; IN- 7; PAPER 0:R8 6440 PRINT AT 9,16;" 'IAT 9,12; IM- 7; PAPER 0:R8
A4SU PRINT AT 15,23;C#;AT 19,16; INF 7; PAPER U:T#
6510 PRINT AT 15,164" "Lat 15,23; INP 7; PATER 0; T
6520 FRINT AT 9,16; INC 7; PAFER 0;5#
6530 PRINT AT 9,16;" 'IAT 15,16; INK 7; PAPER 0;59
6750 PRINT AT 15,231C#1AT 9,121 INP 71 PAPER ULTS
7010 LET K=X+(CODE Z#([)-481*(2:(8-1))
7047 LET X+X+(CODE Y4(1)-661+(2~(6-1))
Fig. 3. Opcodes for the Shift and Notate instructions
RECA 07 FEA 17 BROA OF BRO LF
ALC B CRUO AL B CRIO ARC B CRUB BB B CR

REC D CRUS

SEL A GBL D BAL E BUL L

Fig. 4. Some Useful ROM Routiness

02DD - Keyboard scanning routine; this returns a coded

Character code, you li need to transfer ML contents but and an emp coust to the DC and call the reatine at 0780 but and many bed and come of the content to the content of the content of

9GA - CLS routine 1GG - SDACLL routine FZD - Set SLOW mode

in open trus

ESC - Keyboard scanning routine DBS - BCEF subroutine DBS - BCMOLL subrouting (number of lines in 8)

1844 - Clears the lower part of the screen, the number of lines governed by the value in B'. 1866 - Clears the 'commend area of the screen

Fig.S. RST commands

ANY 00 (sprade C7) - When you first switch on your compute this is where it starts. The routine carries out spec tests, then super Any class. You can use ANY 00 to make sure the computer has computely reset.

AST OR (opcode CF) - The error trapping routine - it causes the error messages to be governted, and stops MAIC, the error number is the value in A annual Amb the restart

Foutine is (alled.

RST 10 (escode D7) - The print routine - it prints on the screwn (pr active device in the Spectrum) a benefiter.

HET 18 (opcode DF) - Collects a character addressed by the system variable CH-NBD, and checks

RST 20 (upcode ES) - Used in the BASIC translator to check collect the next cheracter, and translate

RST 28 (opcode SF) - Calls the fination mount calculates

routine.

RST 30 (opcode FB) - Creates a space in RSM in the workspeces

the size of the space is governed by the value in BC. RST 38 (optode FF) - The Maskable Interupt routing - some

Fig.6. Print bevadedimal evample
Assembly language listing
LD A₁2 SE02 J Spectrum
CRLD 5633 CD0114 J



BRL A CROP BRL A CROP BRL A CROP CALL FRINT CD4C LD A,E 78 AND 15



ADD A,28 C611C RST 18 D7 RGT CY

RD#Ctrum PRINT Rout!

And A.48 C430
CP 58 F638
JR C.+2 3602
AND A.7 CAUT



PUNC 16389,67 FORC 16389,117 NOW Then type in, SAVE, and RiN, the following limiting

10 LET X=20006 20 INPUT v 30 PRINT AT 21,041,V 40 SERUL 50 IF V=1 THEN STOP



33,0,125,125,95,230,240,203,43,203,63,203,63,200,63, 206,78,117,123,230,15,205,78,117,201,198,28,235,201, NBM the mechane code loader, then type in, and FBM

D INPUT X D PINE 32000,X D RAND USH 3000 R FRINT

four decisal to hex conversion should now be working

Spectrum PROGRAM 1: mting

Type in, SAVE, and RLM this programs

09 CLEAR 20099 09 LET x=20000 30 READ VI IF y==1 THEN BOTO 50 00 PGRC N,VI LET x=x=1; DGTO 30

0 PORE N.91 LET N==1: 00TO 30 30 NPUT "Enter a number (0-255) ";2 0 PORE 32000,2 10 MMCDOMIZE UNN 30000

00 MMNCDHIZE COMM 30000 10 MMNCDHIZE CHM 30000 10 MYC DE 2000 CHM 42,2,200,1,22,33,0,126,126,92 100 DATA 42,2,206,1,22,33,0,126,126,93 100 DATA 42,0,240,203,43,203,63,203,63

30 DATA 203,63,205,78,117,123,230,15 30 DATA 203,63,205,78,117,123,230,15 30 DATA 203,78,117,201,198,49,254,58 34) DATA 56,2,108,7,215,201,-1

3,126,45 3,126,45 3,126,45 3,126,45 3,126,45 3,126,45

2,106,7,215,201,-1 Fig.7. SAGID Error message demonstration In the IVAL lower RAFTOP with the same three direct mids as listed in Fig.6. With the Emerican Lower DAFTOP

Now, type in, and REN this listings

10 PELE 30000,207

30 FORE 30001,X 40 MAND USR 30000 (ZXB1)

nessage against the number you have INPUT, and the section on error nessages in your handbook, fineshbly language listing: RST CS (that's all')

HISHER	LOWER	LOWER NIBBLE	
1 1 1	1111		

	000 4
2 1 0	

ZX81 Soft Selection

There's still '81 software being produced, and you can rely on Nick Pearce to hunt it out.

Stefan Schmidt

SD compendium Tage1 SDPrograms

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Billiabred in a company

Tortoise Wise e lines from a Parent who Gets Left Rehind, by David Stewart





Lightmagic – Graphics Designer

The Shape of things to come from New Generation Software? Colin Christmas puts you in the picture.



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No frills. No gimmicks. Just the serious business of having fun. We know the problem only too well.



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Cribbage

lan A Stewart presents his version of the Londoner's favourite, the classic card game - Cribbage.



User defined

The program's strategy

Program structure

The work arrays often careful

Description o main subrout

Data structure

PECTRUM GAME Description of main program SUnferlised therestered SOOD MANUFACT NO DEF TH SENT-LESSES INT CALL 48 BO TO 7099 See sen ------PROFESSION PICK 2 CARDS

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| 1150 19 | 14411579-15 TREN LET | 2022 PDE xm-1 TO 1 STEP -1 | 195 15 CC 1968 DO TO 1029 | 196 | 197 CC 19

200 210F LET twi[c] at 211F LET ped 211F LET ped 211F LET retail 211F LET retail 212F LET reta

1210 IF t=15 THEN LET #=#+2 2130 REH #9# #0 DMS 1220 HEXT y: NEXT # 2200 IF #<3 THEN R

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2350 IF htwl+IC>htw:|| THDH GD TO 2704

237# IF FOR THEN LET DTE 270F HENT I THE LET STATE 2379 PETUSH THE A DIES AND CONTRACTOR OF THE PARTY OF THE PART

------ past Hil, Impah I 2428 FOR 1-1 TO 1-1

2426 IF hts: 201441) THEN LET AL 2448 MEXT X

2238 FOR X*n-1+1 TO 6

2450 IF 1CH THEN SO TO 2418 2448 SETURN 2780 NYS services - Rasplay human plays 2718 IF PART THEN LET ASSETT PE INT AT A. 91" EO "! RETURN

2715 LET se-"Coinct a card union SPACE (ENTER') OD SUE MESSAGE 2750 LET e-41 LET x-11 00 SLG OF 2748 IF BIXICH THEN OD TO 2740 2747 IF 101(22 7HEN 00 TO 2728 2745 PRINT AT 28, 184-51"007"

2747 LAY am-TENTER again 14 year 2756 LET Noomal ED DUP SELECT 2768 IF ASSCRIPTION OF TO THE 2767 IF toticagle THEN LET anten

2763 METUEN 2765 LET REAL SEEP . 82, 17 277B LET CHRISTI BD BUE LAYCARD 2775 IF NO THEN BEEF . 2,201 LE I ame Total aust to less than 32 "2 00 SER MESSAGE: 00 TO 2729 2785 LET tot-t: LET bikl-p 2200 CO SUR ERAGE

SESS LEY MARKS LET WAR 2636 LET ABTRECT LET VENABLE

THE PRINT AT A, PICTORAL "Stoti" 2978 IF N-P THEN RETURN 2948 PRINT AT 4. PITTOR "INI" 2955 GO BUR LPTATE 1948 BETTUEN

NEW IF ACM THEN LET COUNTY BE 3225 LET ME-11 GO EUR MESSAGE 3238 IF nebugat TOEN PRINT \$11A

3248 LET MAXIT TI LET XIVE 335¢ FOR 1=1 TO 6 3268 IF ALLY OF THEN GO TO STARY NAME OF THE PARTY on to Steet See lilegel 3999 LET SOC-11 LET 1111-61 FEW

umpley and neve store York REM appellal rules. THEN IF LAKETI AND LIBER THEM 2318 LET B=8+(4)181-(4+21)+(1)=4 TALK OF ANY THEN MY TO TAKE 332# FOR J=1 TO 4 3330 IF 1"1 OR 4113 OF THEM OR Y

NAME OF ACCUSANCE ADDRESS OF TAXABLE LET STREET 3328 IF ARE TO CLUTTER THEN LET NAME AND T 2366 OD TO 3456 2988 IF ARE INTALIBLE FARM OF

TALK FOR LAL TO A 3420 IF JOI OR ALJOCO THEN GO T 3430 IF ARE CLINI-CCIII-(-2 THIN IF \$4284111C32 THEN LET BOB-2 3448 IF alread TREN LET moves! LET xI=I

2970 IF debug THEM DRIVE STREET TREE NEXT 1 2520 IF kire then LET county po INT AT 6-71" OR "1 SETIMA

3578 LET O'N-11 LET 1(m)-c
3598 LET Gatel LET s-(x)1
3598 LET Gatel LET s-(x)1
3598 LET Gatel LET y-s
3689 LET S-(x)1 LET y-s
3689 LET S-(x)1 00 SUB FACTUP
3618 LET y-s
3618 LET Gatel
36

SOME SEE SELECT CARS

3718 PAPER 4 3728 PRINT AT 21,484-31 PLASH 11 ---1 3729 1F SANCY44)** THEN 00 TO 3 725 3738 IF 000E IMCEY8-13 THEN 00

725 75 PRETECT THEN GO TO 3
725 75 PRODE IMPRIENT THEN GO TO 3
726 PRINT AT 21,×84-31* *1
3740 PRINT AT 21,×84-31* *1
3740 PRINT AT 21,×84-31* *1
3740 PRINT AT 21,×84-31* *1

3778 LET ****1) IF x>c 7HEN LET x=1 3759 60 TO 3728 3698 PRINT AT 21, x=4-3;* '; 3818 RETURN AT 21, x=4-3;* '; 3818 RETURN AT 21, x=4-3; '; '; 3818 RETURN AT 21,

APPE REM STATEMENT TAKE THEMS

4000 LET APPEL LET RE-D

4000 LET APPEL LET RE-D

4000 500 500 4000

4000 FF 417 (324 THEM 00 TO 4200

4100 REM HARRAM

4188 REH NUMBER
4118 19 deve-1 THEN RETURN
4128 00 BIR HANN-LAY
4129 15 HIS HANN-LAY
4129 15 HIS HANN-LAY
4129 15 HIS HOUSE
1 60 TO 4228
1 60 TO 4228
4129 15 Food-0 THEN 00 TO 4228
4148 LET 415 CO 038 10784; 15 F

188 LD 4-1 AU 500 107 107 10 AU 50 10 AU 50 10 AU 50 A

1070 THEN RETURN 4278 00 DUS 4380 4278 00 TO 4180 4288 NEW 886 LUPA OVER 888 4316 LET VIR ATTE POR YET TO PE ATTE DO SUR FACEROWN ATTE DOS SUR FACEROWN ATTE DOS XET TO AN ATTE MOST X ATTE MOST ATTE ATTE ATTE MOST ATTE ATTE MO

4420 LET TOT-ST LET and 5420 LET TOT-ST THEM LET 5420 JF nin-4 AND non-4 THEM LET 6440 LET COP-ST LET TOP-ST 6450 SCS TOTAL I RETURN 6450 SCS TOTAL I RETURN 7510 PERSY STATE BASINGS 4510 LET STATE BASINGS

ASSE DELOT BLIAT BURNES ASSE LET S-MS LET FLOREZ MSSE LET S-MS DE SUZ GLESS MSSE SET MSSE DE SUZ GLESS MSSE SET ASSE DE SUZ GLESS MSSE LET ASSE DE SUZ GLESS LET MSSE LET ASSE DE SUZ GLESS MSSE LET ASSE SUZ GLESS MSSE LET ASSE SUZ GLESS MSSE SUZ GLESS ASSE SUZ MSSE SUZ GLESS ASSE SUZ GLESS ASSE SUZ GLESS MSSE SUZ GLESS ASSE SUZ GLESS ASSE SUZ GLESS MSSE SUZ GLESS ASSE SUZ GLESS ASSE SUZ GLESS MSSE SUZ GLESS ASSE SUZ GLESS ASSE SUZ GLESS MSSE SUZ GLESS ASSE SUZ GLESS ASSE SUZ GLESS ASSE SUZ GLESS MSSE SUZ GLESS ASSE SUZ GLESS ASSET SUZ GLESS A

NAMES

AND ACT SET COUNTY OF THE COUNTY OF T

AGES DIFF END LET YOLL

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AGES DE HIS T

4785 LET Nob-DI LET tot-D

4795 LET notings LET total 4719 FOR x=1 TO 5 4715 IF x(3 AMS h(x)=11 AMD hais SPECTRUM COME

1740 DO BUS CALLED 4945 LET #15)-%: LET #8151-56 4978 LET C193-42 LET (\$15)-66

4950 LET x=x+,25: LET y=7 4905 LET 9(5)+h; LET #9(5)+h# NEW REN ---------- DISPLAY HUMAN HAND SWIM FOR set TO C

NATE LET ARRESTS (STATE LET ARREST TOTAL OR THE PASSUE. SPSE NEXT 1/ RETURN NAME AND ADDRESS OF TAXABLE PARTY OF TAX STORESTORES DISPLAY IN DAME

5128 FOR 141 TO 8 NAME OF THE PACEUR BITT MENT AT BETTERN NYSS HEN CARRESTS

------ PIEPLAY CRIB and co TOTAL LET SPIN-11 LET WITH THE ALL STAY THEN LET YOU Size FOR year on a SERR LET BIRITORNII LAT MAINTER

SPEC LET SECRETATIONS LET SECURI DOSE IF N'S THEN OR DUE PACEUR BUTTO MEST AT RETURN TTUTTERS CRASS CARS

STIP PAPER 41 00 TO SEPE Side HER -----SSAF PAPER 2

SATE LET NEWS OF LET WHILE OR Y 0 5429 SARR REM

SHIR PAPER OF IP SWORELLI OR you ARCES THERE THE P 5429 LET x1=49=-6

Seep PRINT AT YORLINGS. "IAT YO Leslayers . 5450 PRINT AT y+2, x11" "IAT y-

SAME PRINT BY YOU, AND THE SATE PAPER 4: INK BI PETURN DOOR NEW

leaders) THEN LET ontol 4720 LET ETHEREN PUBLISH 4750 LET 1-5: DO SUM SORT 4768 LET 1-51 DO SUB FUEL HAND

4779 LET MO-**: GO SUB MESSAGE 4775 IF playersex OR MIT may THE N 60 TO 4422

4700 INPUT "What In your sunce? 4705 OF RECE OF RELIEF THEN DO I 4759 IF assaspeintience THEN LE

T agent surcent LET Sheat 60 TO dann ATTS LET ME-STEE BOY' 10 MILES.

6039 IF 138 THEN PRINT 1154 -4848 IF DOR THEN PRINT TRAILED

come IF 4110 THEN PRINT "Flush-SPEED IN SUIT THEM PRINT LEADING . THE PRINT NAME OF ORDERS OFFICE OFFICE OF

CODS PRINT "TOTAL " "181 WHAT IF MANY THEN PRINT ! AND ADDR GO SAM HESSAGE! GO SUM UPDA 4891 IF mag-2 THEN LET PLOYER TO set LEY mage 11 PAINE 100 4855 RETURN 4940 REN ------

PROFESSION CUT PREK make 11 31 4182 LET y=0: 00 SUB FACEDOM 4712 LET ME-*May I cut the pack. 4915 IF playermen THEN GO SHE MISSAGE! PAUSE SEL DO TO 4738 4778 LET mis-Press any key to co t the pack. "I GO SUE RESSASS

4928 If INDEXES THEN SO TO 40 9938 LET PHENDAMENALS. 4935 LET ROINT DIFT even of her then so to save 4946 LET SWORTPM STREET 4950 LET ABOVE (BY) LET ABOVE

SPECTOLIN CAME IN CONTRACTOR PRINT HESCARD 4485 IF playerers THEN LET 1-53

SALE PRINT BLIST L-BLOSIST L-SIN STOR HETURN NAME OF A STREET, STRE

SAME PAPER 4: PRINT AT P.P. DATE FOR YOU TO 221 PRINT TAR YO

DATE PRINT BY P.P. RETURN STATE REAL

NAME AND ALT OF THE PARTY PARTY PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE

STIR PRINT THE 251 PAPER ALT

5728 FOR YHS TO A 5738 PRINT TAR 251 PAPER 41" II

II TO REM DIMPRICE 5746 PRINT TAB 251 PAPER 417 /-II TI PER GRAPULOS

DODG PRINT TAR DEL CAREE ALL .. " "I SEE CRAPHICS BYAR NEXT Y STAT PRINT THE 2DI PARTY ALL

STOR PRINT HALL PARKE A 5775 PRINT AT 2,281*** IAT 19,201

TITL BEH GRACHTER STREET, ST. DAY STREET, STREET, STOR FOR ANY TO B SEES PRINT AT 28x+1,20(88(x) SPLP NEXT +

DECK PRINT AT LABLE PAPER OF HET LIBN 4860 REH ------CONTRACTOR OF BATE SCORE

ARREST AT SHE THEN DETURN 4818 PRET . T. 18 atry for feet routing APZP LET many(player) 6838 IF WHIR THEN OR HIM ASER

APAR LAY Viplayeries tolayer! orde LET stellaveries tellaveries 6868 IF win) aven 13128 THEN LET Hinrulevery DO TO AGES APPR LET amenintaver! 4050 CO THE 4400

ARES PRINT PAPER ALAT 20,23144 OFFE PRINT PAPER 61AT 20,31-1=1 2x13991=(m(zw130);m(zw) 4488 LET x=25: LET y=1

ASID IF SHOOM THEN LET SUPERIOR A415 IF sec31 THEN LET au-31-us 6428 LET 02792-301 LET x+27; LET west if playermax bein LET and 6448 LEY VOI+ COS+INT | Cos+ID /831

6456 IF VOINT V THEN LET VOINT 6468 PRINT OVER 11 PAPER ALAT

TARR RES ****************** WHE BANDONIZE I LET debug-F PRIN BORDER OF PAPER OF INC. OF C

LET THE LET UND 7875 DIN SIEST DIN SWIGST DIN IT 7930 DIN #1671 DIN #81671 DIN hi 411 EFM burners based

7835 DIR CIATI BIN ARIALI DIR 41 431 REM 25 hand 7840 DIM STATE DIM SECALE REM crib hand 7858 DIN 91211 DIM 81211 DIM VIZ IT DIM VEISIT SEM MOOFING 2855 BIH 015221 BIN 11221 BCH 0 THAN IMPUT 'Welcome to CHIEFFACE,

"""To you want instructions ? "! 7879 IF 19131-"y" OR 1944Y" THEN 60 NUR THER! GO TO THEM few memeria . * DEGR FOR HALL TO 131 MEAD HE THES FOR YOU TO P! MIND I

THEN POSSE USE SETTLE PART HENT YE NEXT X 7100 LET FICKE - new TIES LET SWALMAND - LEGE TILE LET LATEARD - 2000 2115 LET SORT - 2500 7120 LET HANPLAY = 2700 7178 LET TOTAL - 2788 7139 LET 25PLAY = 3289 7135 LET SELECT = 3780 TING LET TANETURNE OFFI

7145 LET SHOW - 4749 7156 LET COUNT 7150 LET COUNT - N/89 714F LET MINISTED - NEW

TIAN LET THIANS - TIME 7179 LET CRISHAND - STOR 7175 LET ERASE - Blow THE LET FACEDOMS - BING 7168 LET PACEUP - BARR 719E LET MISSAGE - DOOR 7200 LET DIAMEDAGE 5740 721F LET UPDATE - 60RM THE LET REST LET MANY!

THE REM STORE GRAPHICS ASSESS THE LET VENTATION SER PEON 2315 LET ame PROS'! HER SUITE 7328 LET ##**A2345678T#JBK*1 REM 2338 LEV ARES

"I NEW 32 spaces 7335 LET ON-*Press any hey to on

7348 IF 18-1y" THEN GO THE YESE 7358 REW Construct such THE LAT AND 734F FOR x=1 TO 13 Fish FOR your TO . a STEP . I

PERSONAL PROPERTY AND ADDRESS. 7398 LET grean!-#! LET staxi-#

7400 104 ******************* STREETS START A NEW GAME 7484 LET ANDER THREE IMPLIT TWISH MARRIOG CALL T y/a "law; IF men'y' On adety, a

INN LET marget TARA DO DUE TRAMEDARD THE PRINT BEINT P. EL"LOWEST CUT rene LET mixel-pt LET simus)-py 7429 LET ALPHANI LET WHE LET OF 7438 LET x=21 80 BUS DUT! LET NO

reed LET player-man; LET work CO BUR CUT PARK OF BOR THEM LET GLOTTER 7479 PAUSE 581 LET 1-231 OR SUE

PRESERVED TO SPECIFIC AND DEAL PERSON AND ADDRESS AND 7509 FF AIR-MAN THEN LET ME-TYN 7500 LET strate, the dealer!

7535 LET men*Shuffling the pack* PAGE LET SHIRT (BNDE(B3-x11+x) L ET septell LET pisteptyll LET pt

7648 AND sort cards to be featt 7658 FOR yel TO 7 STEP 6 766F FDS HTV TO VAN 2628 IF p(s) 2p(r+1) THEN LET at at LET peptate LET misterration

PAGE NEXT AT 15 ADE THEN OR TO 7659 HEXT V 7789 RCH deal 7728 IF SICTED THEN LET COLS. I ET 1 ** 2238 FOR 115 TO 4 7748 LET YOLL OR BUS PACEDOMY 7758 LET GIRLWINT DIRLY LET CRIS

THE LET SINDS SECTION 777E LET YOU GO BUR PACKEDUM TYPE LET RISITINT PLANEL LET AM fal-affire nipixealti 7750 LET BIRLY 278% HEXT X 7799 RSH ***************** 7650 LET 4-41 LET VALAT DO NOW M

PRES IT debug THEN DO BUE ZOMAN TRIE LET amorphesse unit shile I 7828 LET COM LET Clanel LET Co 7029 LET MANY-PER LET \$113-11 LE PRINT BO THE PICKY

7848 LET me-*Pick 2 cards using 7045 IF IS-"y" THEN SO DUE 9388 I SE CHE SAME 7070 LET C-6: LET yold LET yol 784# SO SUR RELECT! GO SUR FACED 7078 LET \$133**! DO SUB SELECT THE LET SEVERIAIN STREET VENERS

7885 IF N=1(X) THEN GO SHE HAVE 1F: 00 TH 704F 7998 LET 1143-A1 60 DUE FACEDOMY 7999 SER COT LLEGS UP Annes

7950 FOR sel TO 2 7950 LET e(x)*c(t(x)): LET e0(x) 705(4):) 7916 LET c(t(x))*ep 7916 LET e(x)*21*c(t(x)*2)): LET e 6(x)*21*es(t(x)*2)

7915 LET e(x+2) = a(t(x+2)) #[x+2]=a#(t(x+2)) 7928 LET a(t(x+2))=a 7928 NEFT x 7938 LET y=11 LET z=1 7935 FOR x=1 TO 6

7996 IF elsylectical LET years 7946 LET elsylectical LET elsylectical 7946 LET elsylectical LET years 7958 LET elsylectical LET years 7958 LET elsylectical LET years 7958 LET elsylectical LET years

7998 LET 06(p)=06(x)1 LET y=yx1
7908 IF alxi=0 THEN DO TO 7970
7948 LET a(r)=afx1: LET a6(r)=a6
14:1 LET z=z1
7978 HEXT x
7988 LET x=241 DO SUM CLEAR
7980 IF 18=*y* THEN DO THE 7950

OBJE LET N=01 DO BUS COT DEED IF N=11 THEN LET NBC-72 For him heels's DO BUS NBEEDES LET =>21 BO BUS UPDATES PAUSE AS RESEDENCE NEW PAUSE AS RESEDENCE NEW PAUSE RESEDENCE

BIJS LET diredirell IF direc THE

LET direct

BISS LET ==25: GO SUB CLEME

BISS IF 140-7y THEM GO TO THE

BISS IF 150-7y CONTINUE WITH INSTEAD

BISS IF 150-7y THEM LET JECTY

BISS BISS IN THEM

Blos GO TO TREE

STORE EEE SECRETURE STREET

STREET HER SECRETURE

CLIP LET HER SECRETURE

CLIP LET HER SECRETURE

STORE IS HIMTE THEM LET HE SECRETURE

STORE IS HIMTE THEM LET HE SECRETURE

STORE FEEL HIMTE B. SECRETURE

STORE FEEL FAFEE SECRETURE

STOR

#220 FELST #1|AT 0,000 UPGATE:53
2000 FELST PAPER 6:AT 10,201 FL 9148 FF.INT
ANN 1194(5) 9145 FRINT
2000 FCR x=1 TO 40 STEP 31 MENT 51
.#22,x1 MENT x 9158 LET am

#26# LET gipleyer)=giplayer)-1 \$265 LET mt-oel BD DOG MESSAGE #27# PAUSE #2

SIMP ON TO PARK STOR ON TO PARK STOR ON TO PARK STOR ON TO PARK STOR ON TO PARK

THE CLE : PENT * 6 cerd Cribo Open to a same for 2 players. But the a same for 2 players.

age is a year for 2 players. Each is dealt a cords2 of which he distants to form a third hard the crib) shifth inlater assered by the dealer. The 3 hands are complimented by a card dat from the pack.

very paint. "Acc slawys counts a si and all court Cords have a value or 10." "9230 FRIST: JRINT "YOU will see daring blay home points are a slowed has events on a Combina tions, but slow me will see

Tions to retain core combine tions, but first me will see how accords in bept." Tede BETUMN VALUE LET WESON TO SUB PERSON THAT PARKE E TOTAL CLD 1 90 BUE REAWEOMED DOTTO: THE TENER DESCRIPTION OF THE PERSON TO TH

WOTE CLG 1 DO NAME MEANMEDOARD
WHOTE PRINT "When politic are accoed" "they are marked on the"
TORS FRINT "hazard with mega, ""
TORS FRINT "hazard with mega, ""
"thick consults hazard";
TORS FRINT "ha reach 122 points,"
"Thick consults hazard";
TORS LET MAN-TO-MAN STACE for acemportant micro. 1 DO SUM HEGGESS
WHOTE CONTROL TO THE CONTROL
N DO TO 9778 "IMPLIFATO" "THE
PIECE LET MEANING LES ACADIME
N DO TO 9778 "STANING LES ACADIME

51 9158 LET ME**Now match your accor

e'I DO DUM HESDAMS 9155 NEXT I 9149 LET mme"HIL EPWCE to use th

e demo again'; DO SUS MESSADE: 6 O TO 5995 TISS PRINT AT 7.01 when you have to select''s card one these ke yn!"'SPFOCE to save the arrow," 'ENTEX to play the card."

'ENTER to play the card.'
9198 PRINT '-14 yes choose to pl
sy' 'the suggist rale then' 'you
must event your sen' 'score and
1 get your '-points 14 you make

1 get your "points 14 a" "mistake."

TIPE PETURN
THE PETURN
THE PETURN
THE PETURN
TO THE PETURN

12' the number of points in 9228 PRINT 'Ain hard, beginning mith' the non-fealer. 1238 PRINT 'Atterpards the deal

TYPE OF THE THEORY OF SUF THE TYPE THE THEORY OF THE

9745 LET ME-LET SO SUE MUSEAUC 7250 PAUSE PI LET N-251 SO SUE C LEAR 9250 LET N-61 LET V-81 SO SUE PA

7255 LFT x=61 LET y=81 SD SUS FA CISCAN 7248 LET x=x-.251 LET y=71 LET x 8-2816 (8)31 LET y=x-8(8)

900 FRINT 'Points are scored to

731P PRINT "Each total of IB ...

2346 MAINL .2 OF W FING 12 Delta 1 7. 2356 MAINL .3 OF W FING 12 Delta 255 MAINL .5 OF W FING 15 Delta

1 12" 935F PRINT "Sue of 2 or more 1/ Card"

Tops PRINT "4 card flush Tels Print "5 card flush

seas servent 'Card out from pack servent 'Card out from pack servent 'Card out from pack servent seas servent

sets PRINT AT 8,81 Now we such p lay a card" "siternately until t la" THAS PRINT "total is an elone to 31'1'i'en pomeible."
940# PRINT "Foints are stored id
1'''Tetal = 15 2"
940# FRINT "Total = 31 2"
"Closest to 31 . 1""

"Glowest to 31 . ; ;""
"STOP FRINT "Forming a run or a p
air": "Thith cards airceafy on the
"
"DOWN PRINT "Lebie size scores on

TOUR PRINT "teble nime scores po inte:"" TOUR DO SUR TOUR TOUR DO SUR TOUR TOUR DO SUR TOUR TOUR DO SUR TOUR TOUR DO SUR TOUR

e card.""[teta]31) then seject.
""an empty card positios."
9538 LET sero#1 60 6UB NESSAIR
1548 PAUSE #: LET s-251 50 8UB c
LEAS

TOUR PAUSE B: LET x=25! EO BUB C TOTA SETURN TOUR ENTA "A" TOUR ENTA F, ETG, LTG, B, B, LTG, LTG, FAZE ENTA "A:

TARE BATA #1.193,193,8,8,8,8,8,8
TARE BATA #1.193,193,8,8,8,8,8,8
TARE BATA *c*
T408 BATA BA.30,294,204,214,16,16,16

6.74 7460 DAYA 16.76,124,274,256,124, 76.16 76.16 76.70 DAYA 16.76,124,274,276,124,

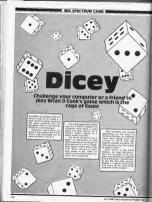
7478 DATA 8,20,20,0,0,0,0,0,0,0 7798 DATA *** 7718 TATA 240,200,240,0,0,0,0 7718 TATA 240,200,240,0,0,0 7708 TATA 0,0,0,0,040,200,240,0 7708 DATA 1,0

7700 DATA 40,230,254,124,124,124 7700 DATA 15,250,15,0,0,0,0,0,0 7700 DATA 15,250,15,0,0,0,0,0 7700 DATA 2,0

TOSE DATA 10."
TOSE TATA 20.20,20,20,0,5,0,0
TOSE TATA 10.20,20,20,0,5,0,0
TOSE TATA 10.76,124,234,234,146,
14,34

TOTO SAVE 8"4"; LINE PRINT NO.

naved. 1995 ARRIE S.W. 111481 BEINL WEL. 1995 ARRIES S.W. 111481 BEINL WEL. 1995 ARRIES S.W. 111481 BEINL WEL.



1 MER PRESENTATION OF THE PERSON NAMED IN Winder | | ned characters ware entered in . RORAPHICH mode. 2

4 SEEP .5,3: SEEP .35,6: CLR : PRINT AT LE, 31 THE 31 BRIDGE 1 1.30 ACC MENT TWILLDREAM TOL 12,61* (PERES 'y' OR 'a'l' 5 IF IMPERSON THEN GO TO 2 a PORE 23650,6: IF IAMEYOU'L THEN SO SUN PLANT OF TO S 7 00 DVN 9278

H CLE / HORDER 1: INC #: PAPE 9 PRINT AT LEVEL PLANS IS INC. II PAPER AL"THE MOMED IN HOW BE

THE SET UP. . . . IN SERVICES PRODUCTS OF THE PROPERTY SEN WARRIES 15 AMMEGNIZE 28 SIN CIS11 SIN - (S) / DEN -81 ALL LET TOWNS AND LET DESCRIPT

38 BIN 4 (b, F, 127 FOR 181 TO BE POR nel TO BE BEAD OF LET dill, D Altend MENT of MINT I 34 sem board to-pres & initial 35 DIM PURE BUR WILLIAM

Se you jet to 71 LET WILLIAMS MENT II FOR IND TO 131 LET VILL "BRITH MINT ! AR LET GLOST LET GROST DEN AUS 11 FOR 1-1 TO 91 LET #111-71 NEX AN OLS 2 OF PLAYER THEN PROME AT 18,61 DRE 11"PLAYER ONE COM

48 FOR 1-8 TO BY LET YET-128 SMERS' | PAUME 75 se IP played AND good THEN PE INT AT 18,41 DW 11*SPECTRUM COM MENCEN'! PAINT TH

a? IF played AND ope-1 THEN A

HENT AT 18,61 THE 11"D.K. - YOU 60 FIRST*) PAUSE 75 70 00 S/H 99491 BUR ander OR SO SUE 28661 REH print

to no our cheer sen als check MEN LET SETUNG-1 See you set to let you set to a I LET COULT INDESIGNERS I THE RESP . ST. LAT CHARGE PART THE GO NEW TRANS MENT OF 220 PRINT AT 21.82 INC 11 CARES POSST NO. 1

238 IF PINYS ON ORS THEN DO 231 IF played AND speci THEN O O HOM BARRY OO HIM DERNY OF THE

234 IF and THEN 40 TO 318 235 FOR AND TO 16 246 60 W/H 7-656 THE GO SUR THE 200 MENT A

266 PRINT AT 21,49 INC 11 PAPER THECOMO MOSA 278 IF played DE year Table GO CUE SERE 271 IF STAVEL AND SOUL THEN O O SUM DARRY OD SLEE BARRY OD BUE 55ew 274 IF and THEN 00 TO 316 275 FOR and TO be Day 60 EUN Penn

THE OR SAME THEFT DES NEVY . 200 PRINT AT 21,61 INC 11 PAPER THESE ROLL

key to continue

318 50 SUE 7488 315 IF play=1 AND gos-1 THEN 326 PRINT AT 21 MINE 336 PRINT 617 IAN APPROVE MAY

48K SPECTRUM CAMER SELE IF PECKTY! AND PECKTS! THEN 309 IF want I THEN OR TO YOU OD TO YOUR 348 IF played THEN PRINT DAK 3020 IF /e-'v' THIN GO TO THE PLAYER ONE 3838 IMPUT THEM MANY dice for the 361 IF aloy-1 THEN PRINT INC 3848 LET SHINT BY 15 BC1 DR HOT THEN GO TO 3636

11AT 21,81" SPECTRUM 2840 PRINT \$11 FLASH 11 INC 21 E THE IF GLOVER THEN PERMY INC. ow....*! PAUSE 125 21AT 21,817 neme FOR 1-1 TO BE IMPUT TRIES O 0 "11WY 11" for re-rull? "144111 371 IF Glayed THEN PRINT INC. RET SHIPPING SALE YOURSELF NAME OF RELIGIOUS DESCRIPTION OF

21AY 21.01" o To Sese 3646 MENT II SETURN year sen dice & counter plotting 3499 958 ories dice values 2010 FOR 1-1 TO 51 PLOT 411-1-11 3589 FOR 1-1 TO SI PRINT AT 17.4 . c(1, 2, 1); Sear 16,0; Dear 0,-16 \$1-31 THE PLEASED BLEEFILD NEXT 1 DOME -14.01 DRIVE C. LAL PRINT BRIGHT 11 INK OL PAPER ALAT 19.4 TRUE RETURN

340 PAUSE OF ELD

#11-11-11-11 HENT A 3509 REH mort dice values 2020 PON 1=1 TO 9 2893 IF I'mel OR I'my THEN AFTER 3480 FOR Nº1 TO 41 FOR 1=1 TO 5-DATE IN MILITARILLY THEN LET BE 2624 IF 1-18 THEN BO TO 2846 PERSONAL PROPERTY AND ADDRESS. 2070 PRINT OVER 11 180 11 PAPER SIAT PILL, RISCHALL STREET, VILLAL.

TATE MENT IS NEXT IN 3479 Rise hold how seny of sach 2016 IF HOT AL AND MOT AN THEM dice value NAME AND WISLAMS AND ADDRESS OF 2050 LET dispirationismi LET dis-2446 FOR NOT TO 2 EDAP LET fiell-fielledispi. 3450 IF SHE THEN SO TO STORE

2070 IF STOLISH THEN LET STOLIS NAME FOR I'M TO A TATE IN COLUMN (141) THEN LET CO. Sens or stelling them LET stell untremately Go TO have 3496 SD TO 3766 DATE PATRY OVER 11 1MC 11 PARKE DATE NEXT 1 ALAT VIETI, X16 (+1) 1118 AT VIETI 3780 LET avenit LET vis, 21 scound FIRE IF HOT HE THEN BETURN

SPIR LET nonecount-11 LET counte THE LET SIEST-SIESTERS 2120 IF \$102351 THEN LET \$1021+ STOW HENT A 3789 BEN not all to dice com-2176 IF 41623313 THEN LET ALEXT & set counter sevenent markers 3799 DIN #643211 LET #1+#1 LET #

2140 PRINT OVER 11 15K 11 PAPER 2-61 LET displost LET dispre ALAT y(e2), x(f(e2)) | LBIAT y(e2) 3886 IF v(1,210)5 THEN GO TO 38 2100 RETURN TERS HEW AlteR

PLANTAGE ALKAST STREAMSTON

2400 SEM reset dice values 3892 LET xem*PIVE *+STRE V(1,11+ 2010 FOR 1-1 TO #: LET F(\$111)-1 +INT (SHDEA): NEXT | 3994 LET Aleniewil-State Let ale 2428 REEP . 81, INT (BND418) vii.131 00 TO 3936 3826 IF v(1,2)()4 AND v(2,2)()4 2959 REN re-rull

THEN OD TO 3838 Sees LET -Berry IMPUT 'Soler v i 2821 SSM fours 4 0.K. or n 14 not "1 LIMI of 1822 LET dismisS: IF vil. 21=4 To EN LET elevil,1)
3023 IF v(2,2)=4 THEN LET elevil
2,1)
3024 LET se-*pour **(curre v(),1)
3024 LET se-*pour **(curre v(2,1) AMD
v(1,2)=4)**(srre v(2,1) AMD
v(12,2)=4)**(srre v(2,1))

THE VI2,2103 AND VI2,22002 OR VI 1,21=V12,21 THEN 00 TO 3050 3054 RBH VIII NUMBER 3055 LBY NEW VIII. NUMBER 3055 NUMBER 30

6 v(1,1) AME v(1,2)=3)*(9706 v(2,1) AME v(1,2)=10:10*(942 * (07706 v(2,1) AME v(1,2)=2)*(9706 v(2,1) AME v(2,2)=2)*(***) 2338 FOR s(1,2)=3 THEN LET display(1,2) LET display(1,2) LET display(1,2) AME v(1,2)=10:10*(1,2)*(1,2

THE LET GENERAL SET OF THE SET OF

PER HERT IS ASSISTED TO THE PARTY OF THE PARTY OF THE PARTY IS ASSISTED.

3803 LET and: FOR 10 10 5: 1P v 11,37=2 THEN LET ansel: LET be: 3004 MEXT. 3004 MEXT. 3004 MEXT. 3004 MEXT. 3004 MEXT. 3004 MEXT. 3004 DEXT. 30

9,21-1 3855 LET #6-'A PAIR OF '*ETHE VI 9,11*''A'! DO TO 393# 3986 LET #981 FOR 1-1 TO 3 7985 LE VI, 23-2 AND NOT 8 THEN LET #1 7518 SF VIL,21-2 AND 8 THEN LET

7918 NEXT :
7928 LET : se-TWO PAIRS, '-UTRE v
(s,1): 's h '-STREE v(s,1): 's'
7928 LET display(s,2):-11 LET sisv(s,1): LET display(s,2):-11 LET sisv(s,1): LET
2727 ATR set total b high/jos
arkers
2728 LET total B1 LET high/jos
arkers

Times For is TO 5
786 LET total sequence 1311 MEXT
786 LE total sequence 1311 MEXT
786 LE total 312 AMP total (23 7M
785 SE total 312 AMP total (23 7M
785 SE total 323 TMC LET higher
3746 LE total 323 AMP total (23 TM

3760 IF tofal(# YMBN LET Immed 3798 IF total)? AND total(13 THE N LET Immed 3755 IF CODE WEIL)?532 THEM GO TO 3785 3797 RBH high or low 3788 GO GAM Wells METURN 3788 HBM Combinetion declaims

SPEST HEM COMBINATION SECULIARS
SPEST IN FRANCISCO
O SPEST SPEST AND SPEST SPE

"" '1 LING PB | TO 61 IF F13 COP(1) | 131 | 132 | 132 | 133 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134

40.8 LET a=01 LET b=E 40.8 PCM 1=1 TO 9 4530 EF 61.3 C4 THEM LET s=a+1 6540 LF 61.3 LB THEM LET b=b+1 6550 NLXT1 6540 1F a>2 CM b>2 THEM 60 TO 4 5755 NLXT1

HOTE SETURE AND THE PERMIT AT 22 AND THE PERMIT AT 23 AND THE PERMIT AT 24 AND THE PERMIT AT 24 AND THE PERMIT AND THE PERM

4585 BEEF -PILET HEXT I

48K SPECTRUM CAME

48K SPECTRUM CAME

5218 LET res**1 INFUT **600100 9 9 9218 IF 61002 THEN 00 TO 5268

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| 10.00 | 10 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |

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1 LET (1)1-85 RETURN

5128 LET pit21-921 RETURN

5128 LET pit21-921 RETURN

1 AGM FUN n/n

5149 LET pit21-92 THEN 80 TO SAME

1 AGM FUN n/n

5149 FUN 1-1 TO 4

5450 FUN 1-1 TO 4

0 Side | F | pitc2|=| | RETURN | 50 TO 5299 | Side help n/a | 5189 PCR | 1-7 TO 9 | 50 TO 549 | 50 TO

LET hind (3): LET h2m1 Dann HETCH Dann HETCHN ON BLUF 0218
N DANN HETCHN DANN HETCHN DANN HETCHN

48K SPECTRUM GAMEN NAME OF PERSONS ASSESSED. 5728 IF porters on total 15 THEM 6848 IF 1182116 AND 9182113 AND PIGICIOS THEN LET WALL LET TANK GO TO DREED; HER IGH N/H

5739 IF total(12 THEN GO TO 577 6845 MENT II RETURN descr SEN full bound ASTR LF +1+8 AND +2+8 THEN OF T

4868 FOR 1=1 TO B save if pleased and picked burn 00 SUB 4218 AMOR IF piell 21 AND piell-8 AND F1111 De2 THEN DO DUE 6218 same of pieling AMD piegobs AMB rillichel Trem 40 mum egin ALFO HEXT IS BETURN

6119 IF disp103 AND disp203 OR #116 THEN GO TO AIRE! HEM not ALTH FOR SAL TO S.

4138 IF POISCRES AND display OR FILT(7e2 AND FIRE2=3 THEN GO SU H APIP 6169 NEXT 11 SETUND 6159 IF high-3 OR Inw-3 OR displ

ed OW win7 AND DITTIES THEN DO T O TIME SEE OF PRICES! ALSO IF high-2 AND piez-B THEM LAY MET LAY SILINGS METURN 6170 IF 10s-2 AMS p(9)-0 Toke L ET MALE LET CITALE METURN

sime LET west FOR 141 TO 5 ALVO LET TILL HEST IT RETURN AND LET AMERIC LET LIMITE 6220 SETURN 6389 IF MOT ALSO AND NOT LOW THE N BETTIME #318 IF 418114 AND Blab OR 41914

4 AND 100 THEM RETURN 6720 IF \$1801-2 AND \$1807-1 AND (FIR)-highly3 AND high THEN BET LISM COA Inches SMA Setment of 1800 (649)-Low123 AND Jon THEN, BEYOW

6322 IF SIRDI-1 AND SIRDZ-2 AND reign-highlyd AMD Aleh Tudw mer ADDS IF displ-1 AND disp2+2 AND

(# (T)-Lest) 23 AND Inst THEN PETER 633E IF ELEDITHISH AND high CE a

14017 Jow AND 104 THEM BETTON 6348 IF (# (#1)-disp3) (# IMM #F TURN 6344 IF +2-0 THEN 80 10 4358

6745 IF (#1#2)-#1#p2) C4 THEN ME THEM

3760 FOR 1=1 TO 3 5750 IF F11133 THEN BE SUB 4214 N748 HEXT IT BETCHN N779 FOR 1=1 TO 2

BYER RETURN

5760 IF c(11)2 THEN 50 RIE 4210 need it display was display them 00 TO 3848

THE IF SIRRICH THEN DO TO YOU or REM not pair 5820 FOR 1=1 70 h none of relieved and president the H 40 GUR 4218 best If pipilist then LET and I

F 101 THEN LAT 1 (1)=1 BEOF HEXT IS SETURN NAME OF PROPERTY AND PROPERTY AND 00 TO SPIRE BEN 2 pair NO NETO IF PUBLISH AND RESTOR THE SO TO STORY NEW 2 PRIT OK, FR-P

5979 RER 2 PRIC, PRICADE I PRIC 500F FGH 1=1 TO 5 5890 IP #111()e2 AND #(e2)e8 OR citicles and pietter turn on su

STOR NEXT 11 RETURN \$918 POT 1=1 TO 5 tree of citizen on citizen non-

99 GUE 4218 STAP HENT AT METURN 2742 FOR 141 TO 5 STRE IF P(1)()+1 AND P(1)()+2 TH IN SO SUE AFIR SYTH MENT II HETLISH DIES IL GIRUTCOS WAS GIROSCOS LIN IN GO TO ALIE! HIM not three

need if disaled OH displet lies. same post (+1 To w sage of elem from on to agen 6810 IF 61801#2 AMS 1(81)15 AMS r(()()+1 THEN 90 BUB 4218 SPIS IF pielles and rilles THEN 92 51/8 621#

seze IF fielice AND pielica AND STREET, THEN LET WHIT LET SERV 1925 IF 12-P THEN SO TO ADMIT MET IF GISPZ-2 AND FORTING AND #111Cle2 THEN GO DUE 4218 HERE IF PLAST-3 AND FILE-OF THEN ASSE IF FIGURE AND FIEL CLD AND

JE CONTINUE AND SET SETTIMEN 1915

hish frem Berline 6326 IF 8248 THEN 50 TO 6148 6333 IF 11021318 AND 1183118 AND blab THEN BETIMEN ASAR IF FEET THE AND \$193 CLB AND JOH THEN SETTINGS

6364 IF 62-8 THEN GO TO 6378 ATAS IF FIG21318 AND FIRSTER AND HOW THEN METURN ATTW OR SUR SPIRE BUTTON DAME FOR 148 TO 121 PRINT PAPER SIAT LIAT "I MENT I

SMAS PAINT PAPER GIAT P. 151" . IAT 1.181" "IAT 2,151" "IAT 3. 194" "IAT 9,104" "IAT D, 194" "IAT 4,184" "IAT 2,484" "IAT B . 151" "INT P. 151" "INT 18. 151" "LAT 11, 151" "IAT 12, 121" "1

0,151" "(AT 16,15)" "(AT 17,15 TRUE FOR Last TO 121 PRINT PAPER PIAT 1, PITELAT 1, PRIEST MENT 1 MASS FOR 148 TO 171 PRINT PAPER SIAT COLUMNAT LAPRON MENT L VAME PLOY 15, 311 POW 1-1 TO 41 E RAM PLA, DI DERN B. LAI DEAN - TIA. BY DEAV S, 161 NEXT 11 YEAR 218, 8 I DESN P. LOT TRAN - 214 G FOR 1-17 TO 29 STEP 21 PLOT 100-1,175: ERAM #1-143: NEXT 1 rest of played Team on to very THE PRINT INV. LIGHT CONTESTED

TRAD PRINT LAST REAT A. DEL'TOTAL B. SELTLIANT A. SELTATIAN T. SELTY "IAT P. 361"E"IAT P. 361"B"IAT 11. 381 "T" (AT 12, 381 "W" (AT 13, 381 "O" 1 90 TO 9898

THE PROPERTY AND LINE ALBERTAL 7875 PAINT INK PLAY 6. 381 TYPLAY 5,381 "D'IAT 4,381"U'IAT 7,381"B "IAT B, 381"C"IAT 9, 381"E"IAT 18, SELTLINE IN SELECT THER IF 90-1 THEN PRINT AT 15.8 I INC 7) PAPER BY FLASH 11"X"(AT TRUE IF 90"-1 THEN PRINT AT 18. #1 FAFER 21" "1AT 19,301 DM 21

PARER BY FLASH 11'K"

FIRE REM Instructions 9118 SCREEK 1: 18K AL PAPER 1: P SIZE PRINT "THE PURPOSE OF THIS SAPE IN TO ... MANDELVINE THREE CO. SMITTHE INTO ... THE RED AREA AT T CASE WARD OF THE ** ** REDARD. YOUR OF POWENT WILL, IN****YURN, BO LINE WISE. THERE ARE GATT \$138 FRINT OFFINERS, INCOME. PLACED BOWN " ! " THE CRIMTER OF THE BOARD, ONE INTITIACH OF LANCE

Ive. N. H & L. YEST-TTMILL MISSE. LLY BE ABLE TO MOVE 11111DE 2 CO. UNITED IN EACH THEN, VINCETTERS I DITS PRINT "AFTER THE PIRST ROLL

E-ROLL THAT YOU HAD HEPT ... TIME PRINT 'ON YOUR PIRST BE-BOX . WILL TIME ATRING FOR COM PINATIONS THAT ... WILL MOVE THE COUNTERS TO YOUR " ! "ADVANTAGE - P. NTO YOM BED AREA DETTINEY OF Y OLD DEPOSITATE SED ASEA, " TIPE OD THE TIPE THE PERMY "COMPUNATIONS THAT HE LA HOME *** COLMITERS ARE: **** TH O OR HORS OF THE PARK BYFT !!

DAES TWO MINERS ON DICE ... ANY DETTO A MIN OF MLL FIVE DICE. ES 'H' LAME)**** A LOW SCORE OF OVER 'L' LAMES ... PREEDS ANY PRY TO SEE HOW MANY ... PROMISES THE C CLINTERS CAN HOVE THE PAINT P! YESP , 22, 31 PART . TRUE PRINT TAR LZI'A PAIR'STAR Z ALTERTAR 121"3 OF A KIMPLITAR

241-0-1-TAR PLIFFUR OF A KINESA TAB 261"3" ' TAB TITFIVE OF A UTU STATES PAIRST THE TANKEN BUT I COOR PRINT THE LESTLEN BIN 11-93 "IVAR PAL"Z"" TAR BITHING GOOG! 2251 178F 261 21 178F 61 WIGH 90 DRE (23-20) "1 TAR PAL "P" 1 TAR BUT ON SCORE (CIR) TITAR PAINTS TAN ALTEN DODGE TIRETOTTAR TATES

""NOTE THAT 2 COUNTERS CAN BE" "HOWD WITH 2 PAIRS OF FILL HOUS

ARK SPECTRUM CAME

STAR PRINT "TAB 141"HOTES" LAT 1. 141 CHER 11"_____ **** 1) YOU CANN OT COMPINE MEVER IN*** THE WAR H & LOW LANGE WITH ... HOWER IN THE 1-8 LANES. **** A COUNTED CANNOT SO SEYOND*** THE DUTES HER BANK- ANT. 1242 PRINT . SUMPLUS HOVES ARE

PWELED 2) W LIVER . R LINES 18 THIS BY IS FLAGE IS THE 71 PAP BE SITE FLASH BY THE AT PARTY FURN PRINT '4) DICE NOS. ARE SHO

MY IN BLACK ... ON GREEN E.G. "I THE DI PAPER 41"5": GO MUN W. 20 FERS CLE I PRINT "WHEN THE BOARD IN MET UP THE COUNTERS AND

INITIALLY ... SUPERINFORD OVER Y ME CENTRAL LAME NARKIMBE, BUT COOCE COME IN. . . . MOUND BY APPEARS AND THINK IS INK OF PAPER ALL ANTI PAPER 1"THE USE PAPER 61775 TEAR PRINT ._

SHE THEME ... INSTRUCTIONS AGAIN ANY OTHER REY! PARTE OF IT IMP Yearl' THEN GO TO TILE TYTE BOXDER II PAPER II INC AL C LE ! PRINT "IF YOU WING TO SE AN THE GREET PROPERTY OF PERTY STATE OF THE SALES SECTOR MONTH THAN IN TO DO FIRST AND ENTER *************

ON THE ANYMOUND FOR LANSES 9271 DWGT 'DATES "111" OR 11211 9272 LET play-int play! IF play? 9273 1F FLAY=2 THEN GO TO 9298 1700 CLS | PRINT 'PLEASE NOTE TH AT MICH THE " " " MPECTRUM HAS DEC ICED MICH. . . BICK TO BE-SOLL IT VILL " " "RE-AREANGE THE DECK IN

MUNICAL **** OFFICE THRESTATELY REFORE ** ** STARTING TO SH-ROLL T \$200 DRIMA .Th AGO MIRM AG 60 ht BET ENTER****** OTHERWISE EN FZEA INPUT "ENTER ""1"" OR ""+1"

9297 LET SOUTHT NOT 15 SHOWS OR -031 OR 90(-) THEN ED TO 9784 9290 KEGO , 25, 31 KEEP , 15, 01 160 P . 15, 01 MEEP . 20, 31 CLS 1 SETIM

Parriam and Alleum Application Lane

WHEN PRINT BLITFRESS AND ANY TO CONTINUE'S PAUSE D: BESP . 25.31 BEAR . 15, 81 CLE | RETURN soon PHE 1-0 TO (1989-12 9991 NEAD . SPEZ PENE USB "A"+1. a

PERS MENT 1 PERS RETURNS 9905 SAYA 0,0,24,36,128,69,89,24 ,24,24,24,24,24,126,126,61 NEW A

SULP DATA 0.0,00,170,70,2,0,12,1 2,24,24,40,40,120,126,01 NEW CAG 9915 BATA 8,126,126,6,12,24,48,9 6,124,126,6,6,102,124,128,01 NEM WYSE SATA 8, 6, 14, 38, 54, 162, 162, 1 87, 187, 127, 127, 6, 6, 6, 6, 6; NEW OL 9925 DATA 0,120,120,70,70,70,70,120

.174.0.6,6,17,24,117,76,01 NEW C \$938 DATA #. 6, 17, 24, 24, 40, 48, 138 . 100, 100, 107, 107, 54, 46 Te at Per-THE BATA M. SO. 124, 187, 187, 180, 1 eu, 198, 112, 120, 100, 100, 102, 102, 1 OF OF REA MANUES STCS DAYA 8,182,182,182,182,182, 102, 124, 174, 102, 107, 107, 107, 102, 102, 107.01 SEM GAPTER FT45 DATA P. DE. VA. TA. PA. PA. VA. FA PA, VA, PA, PA, VA, 120, 120, 81 FRM E TOTAL DATA 20. 20. 48, 20, 110, 70, 140

.39.317.261 SER dice plot covered



Conversion tips

A guide to ZX81/Spectrum program conversions from David Nowotnik.

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LET Y = VAL XB functions is a SCR1. The approximation of Temperature 2 lines in shown

CONDINE NO LET A - SCREENE A.D. LET A - PREMOPERE 18398 Used in interactive games + 288 "Place 18397 + 1 = Y + 32 "X1 to detect alresonar in the

+ 255 "PERC 16397 + 1 = Y + 32"X) to defect sharein deplay till. Note formula evily work RAM pack is time.

EX COMPUTATO ALPERT ALPERANT THE



De-bugger

Getting a program typed in is often only the start of your problems. Ed to the rescue. Twing in a program is a seekle

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Problem Page





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